

ASI in Civil Engineering

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Civil engineering is a closely related field to many majors on campus, including mechanical engineering, electrical engineering, petroleum engineering, geological engineering, and mining engineering. A background in civil engineering fundamentals bolsters students' credentials for careers in the construction industry, the mining industry, the energy sector, or public policy, and service. This Area of Special Interest (ASI) has been carefully designed to introduce the fundamentals of the major subfields of civil engineering at Mines: structural engineering, geotechnical engineering, water resources and hydrology, environmental engineering, construction engineering, and surveying.

Students are encouraged to explore other courses relevant to this ASI and propose their own plan of study that would support the Area of Special Interest- Civil Engineering. For preapproval on potential course substitutions to fulfill this ASI, please contact the undergraduate program manager for Civil/Environmental Engineering.

Four courses (12 credits) are required for this ASI.

Required	6.0
CEEN312 SOIL MECHANICS	
CEEN314 STRUCTURAL ANALYSIS	
Electives (See List)	6.0
Total Semester Hrs	12.0

Elective List: Select two of the following four courses:

CEEN301	FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING: WATER	3.0
CEEN320	INTRODUCTION TO CONSTRUCTION ENGINEERING	
CEEN331	ENGINEERING FIELD SESSION, CIVIL	3.0
CEEN381	HYDROLOGY AND WATER RESOURCES ENGINEERING	

Students who are majoring in Civil Engineering cannot complete this ASI. A student majoring in Environmental Engineering can complete this ASI by completing CEEN312, CEEN314, CEEN331, and CEEN320. Courses cannot be double counted as Environmental Engineering electives. Up to three of these courses may be double counted toward the BS Environmental Engineering as free electives. This requirement ensures that there is sufficient distinction between the degree and the minor.